9200516

Department of Energy

Richland Operations Office P.O. Box 550 Richland, Washington 99352

IJAN 16 1992

92-RPB-006

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Mr. Timothy L. Nord Hanford Project Manager State of Washington Department of Ecology Mail Stop PV-11 Olympia, Washington 98504-8711

Mr. George B. Schlender, Director Larger Onsite Sewage Systems State of Washington Department of Health West 924 Sinto Spokane, Washington 99201

Dear Messrs. Nord and Schlender:

CONSTRUCTION SPECIFICATION, PLANS, AND ENGINEERING CHANGE NOTICE FOR PROJECT W-172, "272-AW SEPTIC AND DRAINFIELD REPLACEMENT"

This letter transmits the construction specification, plans, and engineering change notice required to construct a new septic tank and drainfield in the 200 East Area of the Hanford Site. The documentation is being submitted as requested by Mr. Schlender on December 19, 1991. This letter also transmits a copy of the telephone conference memorandum, dated December 19, 1991, documenting Mr. Schlender's request.

Project W-172 proposes to replace the septic tank and drainfield in the 200 East Area at 272-AW. The existing drainfield is plugged, and the 5,000-gallon septic tank must be pumped daily. Project W-172 proposes to install a system large enough to handle current staff, a proposed expansion to the 272-AW Building, and an additional office building.

The construction specification, plans, and engineering change notice are being forwarded for informational purposes. Upon receiving this documentation, a telephone conference will be scheduled. The enclosed was prepared by Kaiser Engineers Hanford.



Messrs. Nord and Schlender

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JAN 16 1992

If you have any questions regarding this transmittal, please contact me or Mr. S. D. Stites of my staff on (509) 376-8566.

Sincerely,

Robert S. Holffon R. D. Izatt, Program Manager Office of Environmental Assurance, Permits, and Policy

Enclosures:

- 1. Construction specification, plans, and engineering change notice. 2. Telephone Conference Memorandum.

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cc w/encls: R. E. Lerch, WHC R. W. Oldham, WHC

Telephone #

TELEPHONE CONFERENCE MEMORANDUM

Company:	Westing	house Hanford C	ompany	Addr	ess:	P.O.	Box 1970 Richland, WA 99352
[] INCOMI	NG	[X] OUTGOING	DATE:	December	19,	1991	тіме: 3:00 р.т.
мітн: М	r. Geor	ge B. Schlender	OF:	DOH			PHONE: (509)456-2490
M M	s. K. S r. T. W	. Bolling . Jensen . Moon . Mortimer	OF:	WHC WHC KEH			PHONE: 376-9876
Copies to:			lame		_		Address
>			Axford Akerson				E6-04 E6-25
n		D. L.					E6-50
		C. J.	Geier				B2-19
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			J/FILE/LB				H4-57
V							
Subject:	SEPTIC	PROJECT STATUS	AND TECH	NICAL QUE	STION	IS REG	ARDING PROJECT W-172
Environn	nental P	ermits Section	S. D.	Bolling		Saces	D. Boll 2 372-0863
Environm	mental P	ermits Section	K. S.	Jensen	1/4	to to	376-5616

Summary of Conference

1. Current status of outstanding projects:

W-172:

Department

Bids for this project have been opened and construction is almost ready to begin. Mr. George Schlender discussed his concerns based on his first cut review of the Engineering Report. He requested we consider the following points:

Signature

54-7600-098 (5/90) (EF) GEF017 Telephone Conference Memorandum

- In order to avoid the necessity of a waiver request, the contract needs to specify the elevation of the bottom of the drain field. This may necessitate additional excavation and disposal of excess material. In accordance with the soils report, Type 2 soils are encountered at approximately a four foot depth. If the contract has a provision for unit prices, the potential additional excavation would not present a problem.
- With the Type 2 soils, the dose to volume ratio (DVR) of 6.59 is too low. Mr. Schlender prefers a DVR of 7 or greater and would prefer to see four doses per day. He suggested a split manifold to shorten the lateral lengths and in turn reduce the lateral size.
 - Mr. Schlender's review of the specifications contained in the Engineering Report posed the following comments and questions:
 - The septic tank plans need to be submitted to Mr. Schlender for approval.

 Mr. Schlender pointed out that pre-cast tanks of this size are not pre-approved by the Benton-Franklin Health Department. He is aware that there are only two suppliers in the state capable of supplying tanks of this size.
 - Prior to final acceptance, the septic tank will require a leak test.
 - Mr. Schlender noted the requirement for his presence during the initial pressurization of the drain field. Mr. Charles Mortimer informed him the final bid documents provide for this requirement.
 - In addition to pump hour meters, Mr. Schlender would like event counters on each of the pumps. He would also like the pump panel to have the capability to have a timer installed in the future in order to dose the beds on a set interval as opposed to dosing strictly on a volume basis.
- We discussed the filter as shown on the plans. Based on his preliminary letter on L-092, Mr. Mortimer informed him that the filter shown on the plans is being replaced with in tank filters similar to Zabel. He pointed out the need for an extension on a Zabel filter to insure the effluent is being withdrawn from the clear space in the septic tank.

- Mr. Schlender will require threaded caps on the ends of the laterals. He would prefer an elbow and an extension above the surface. At minimum he requires a marker at the end of each lateral for ease of location for future maintenance.
- Mr. Schlender needs a final bid document, which will be provided.
- Mr. Schlender will require a more detailed O&M manual which will detail exact procedures and frequency of each maintenance event.

L-092:

Mr. Schlender was informed that he would soon be receiving the 40 percent complete -definitive design for this project.

W-219:

Mr. Schlender was given a "heads up" that he would soon be receiving the completed design for this project. We informed him that there were some questions regarding the existing design. Upon receiving this documentation a telephone conference would take place.

W-011H:

oMr. Schlender was told that he would soon be receiving this engineering report. This project has also gone out for bid, and faces the same potential problems as Project W-172 regarding the awarding of the contract prior to receiving written approval from DOH.

B-503:

Mr. Schlender stated that "someone named Meier contacted me regarding the Decontamination Laundry Facility, and it confused me a little." We requested that he hold onto the information submitted. We also gave him a "heads up" that he will be receiving the preliminary report through the proper channels. It should be noted that any communication and/or correspondence must be routed through RL and coordinated by the Environmental Permits Section.

2. Schedules for upcoming projects:
We informed Mr. Schlender that we are still working on a schedule for upcoming septic projects, which he can utilize.

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author

Addressee

Correspondence No.

S. D. Bolling, 372-0863

T. L. Nord, Ecology

Incoming: 9200516

G. B. Schlender, DOH

Reference: 9250145D

R1-28

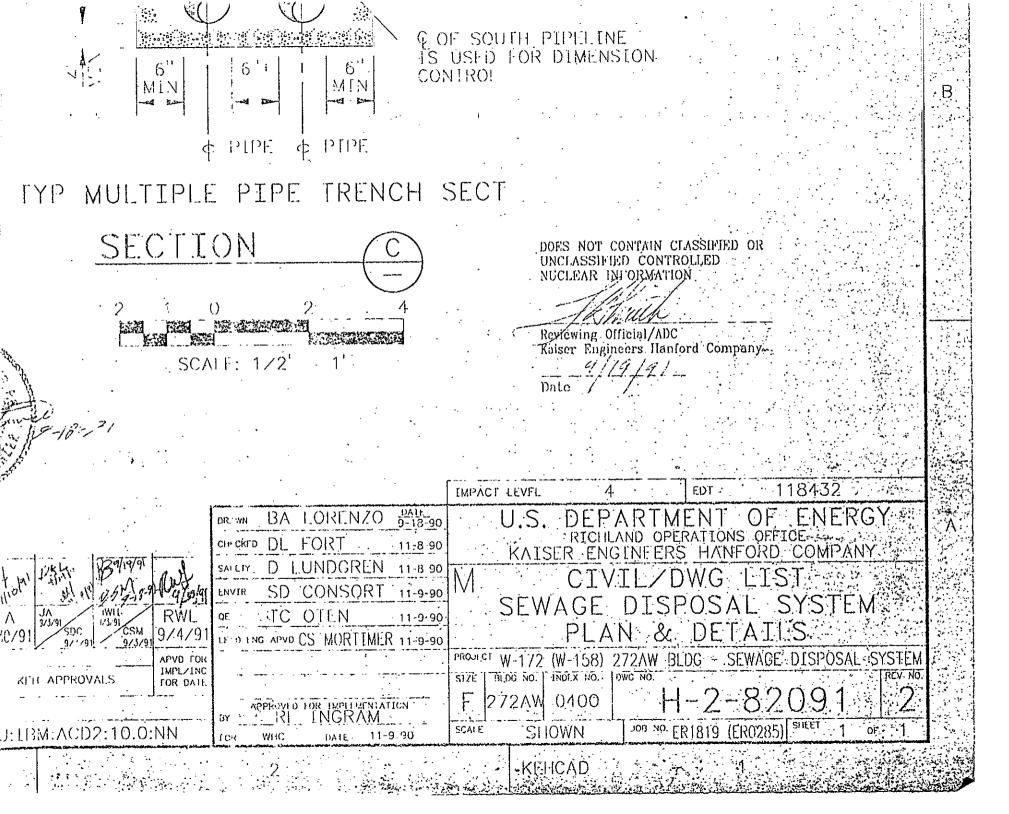
H4-57

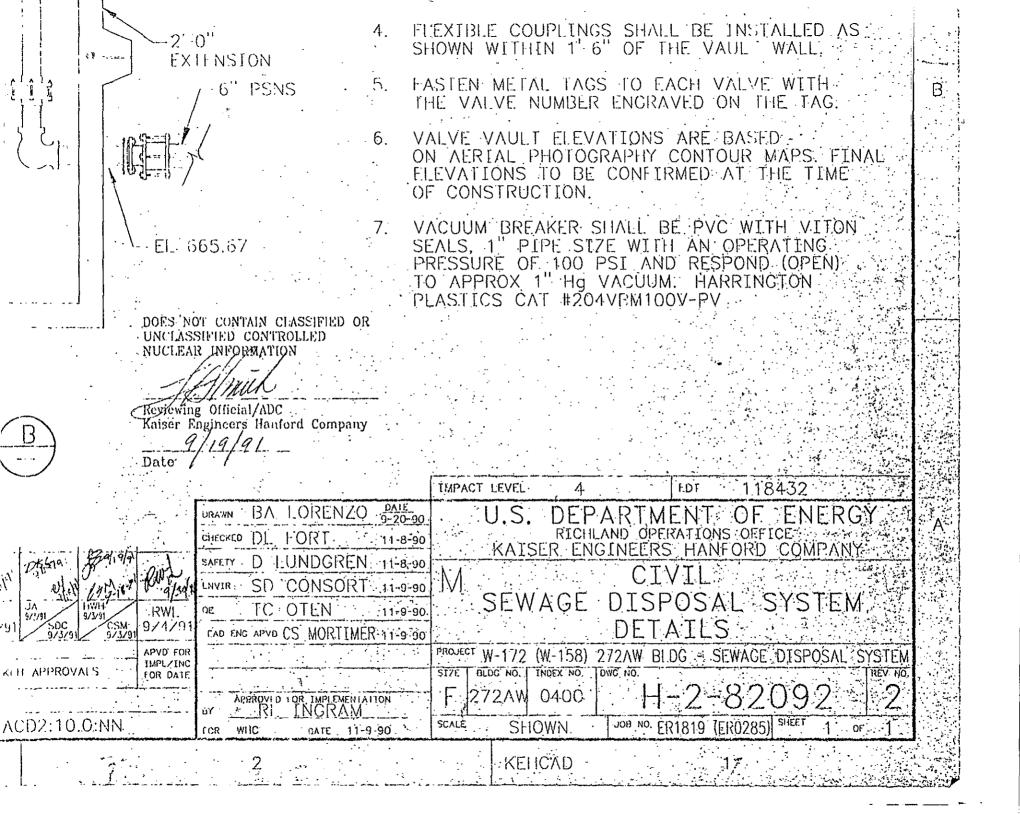
CONSTRUCTION SPECIFICATION, PLANS, AND ENGINEERING CHANGE NOTICE FOR PROJECT W-172, "272-AW SEPTIC AND DRAINFIELD REPLACEMENT"

INTERNAL DISTRIBUTION Approvat Date Name Location w/att Correspondence Control A3-01 S. D. Bolling H4-57 G. D. Carpenter B2-16 C. K. DiSibio B3-03 C. J. Geier B2-19 K. S. Jensen H4-57 R. E. Lerch, Assignee B2-35 P. J. Mackey B3-15 H. E. McGuire, Level I B3-63 S. M. Price H4-57 R. W. Oldham H4-57 C. G. Stites R3-49 **EDMC** H4 - 22

Project Files

FILE/LB





- 1. TOP OF MANHOLE ELEVATIONS ARE APPROXIMATE, ADJUST TOP OF MANHOLE SUCH THAT COVER IS 3± INCHES ABOVE SURROUNDING GRADE.
- VERIFY EXISTING INVERT ELEVATIONS PRIOR TO CONSTRUCTING NEW ITEMS. ELEVATIONS THAT VARY GREATER THAN 0.05 FEET SHALL BE EVALUATED BY DESIGN PRIOR TO CONTINUANCE OF CONSTRUCTION.

SS. MORTH.

SS. MORTH.

STONAL ENGINEERS

STONAL ENGINEERS

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

Reviewing Official/ADC

Kaiser Engineers Hanford Company

Date

IMPACT LEVEL 118432 DRAWN BA LORENZO DATE 9-20-90 CHECKED DL FORT 11-8-90 RICHLAND, OPERATIONS OFFICE. KAISER ENGINEERS HANFORD COMPANY: SAFETY D LUNDGREN 11-8-90 ENVIR SD CONSORT 11-9-90 SEWAGE DISPOSAL SYSTEM TC OTEN PROFILE LEAD ENG APVO CS MORTIMER 11-9-90 W-172 (W-158) 272AW BLDG - SEWAGE DISPOSAL SYSTE) KEH APPROVALS SIZE BLDG NO. INDEX NO. DWC NO. FOR DATE 72AW 0400 APPROVED FOR IMPLEMENTATION RL TNGRAM JOB NO. ER1819 (ER0285) SHEET 1 : OF ACD2:10.0:NN SHOWN : WHC

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DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

Reviewing Official/ADC Kaiser Engineers Panford Company

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